PATENT COOPERATION TREATY

From the INTERNATIONAL SE	EARCHING AUTHORITY		PCT
To: GLAXOSMITHKLINE Corporate Intellectual Attn. Rice, Jason Nea CN925.1 980 Great West Road Brentford, Middlesex UNITED KINGDOM	TW8 9GS 17 N	THE INTERN THE WRITTEN Strith Kline To ate IP	ATION OF TRANSMITTAL OF ATIONAL SEARCH REPORT AND OPINION OF THE INTERNATIONAL JTHORITY, OR THE DECLARATION (PCT Rule 44.1)
	GiaxoSmithKI Corporate II	(day/manth/year)	17/05/2005
Applicant's or agent's file reference	Received BRENT	FORD FOR FURTHER AC	TION See paragraphs 1 and 4 below
International application No. PCT/GB2005/000399	ATTIME LOW ADMIN		04/02/2005
Applicant GLAXO GROUP LIMITED	IPM: N/A ON UPDATED O	PM6/5/05	
Filing of amendments at The applicant is entitled, it When? The time limit International S Where? Directly to the For more detailed instruction of 17(2)(a) to that effect the protest together applicant's request to the protest together applicant applicant applicant applicant applicant application of 18 International Bureau. If the application, or of the priority class before the completion of the test to the protest together application, or of the priority class before the completion of the test together the publicant may submit commenternational Bureau. The International Bureau. The International Bureau. The International preliminary examination must be filed if the date (in some Offices even lateracts for entry into the national protest of other designated of months.	nd statement under Article 19 If he so wishes, to amend the classification of Search Report; however, for moderational Bureau of WIPO, 1211 Geneva 20, Switzerland, actions, see the notes on the activitied that no international sea ect and the written opinion of the est against payment of (an) add with the decision thereon has been made yet on the protest; the end and the written opinion of the end and yet on the protest; the end and yet on the protest; the end and yet on the protest; the end and preparations for international bureau will send a copination report has been or is to be piration of 30 months from the pority date, but only in respect of applicant wishes to postpone to end yet on the applicant must be applicant	aims of the International Approximally 2 months from the predetails, see the notes or 34 chemin des Colombette Fascimile No.: (41–22) 740 ccompanying sheet. The report will be established International Searching Additional fee(s) under Rule 40 peen transmitted to the Interprotest and the decision the applicant will be notified as a provided in Rultional publication, a notice of which are publication. The second provided in Rultional publication. The written opinion of the Interprotect of such comments to all doe established. These comments to all doe established. These comments with the national provided in the comments of the interprotect of the established of the national provided in the comments of the interprotect of the entry into the national provided in the comments of the entry into the national provided in th	date of transmittal of the the accompanying sheet. s 0.14.35 d and that the declaration under uthority are transmitted herewith. 2.2, the applicant is notified that: national Bureau together with the reon to the designated Offices. soon as a decision is made. In will be published by the withdrawal of the international es 90 bis.1 and 90 bis.3, respectively, ernational Searching Authority to the
Name and mailing address of the Ir	nternational Searching Authorit	Authorized officer	

Martin Zibell

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220					
JNR/PB60028	ACTION as well as where applicable, item 5 below						
International application No.	International filing date (day/month/ye	ar) (Earliest) Priority Date (day/month/year)					
PCT/GB2005/000399	04/02/2005	06/02/2004					
Applicant							
GLAXO GROUP LIMITED							
This International Search Report has been according to Article 18. A copy is being tra	· · · · · · · · · · · · · · · · · · ·	ng Authority and is transmitted to the applicant					
This International Search Report consists	of a total of5 sheets	•					
X It is also accompanied by	a copy of each prior art document cited	in this report.					
 Basis of the report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 							
The international this Authority (Ru		translation of the international application furnished to					
b. With regard to any nucleo	otide and/or amino acid sequence dis	closed in the international application, see Box No. I.					
2. Certain claims were four	nd unsearchable (See Box II).						
3. Unity of invention is lack	king (see Box III).						
4. With regard to the title ,							
the text is approved as su	bmitted by the applicant.						
X the text has been establis	hed by this Authority to read as follows:						
FLUID DOSING DEVICE CO	MPRISING GEAR TRANSMISS	ION ACTUATOR					
5. With regard to the abstract ,	hmitted by the applicant						
the text is approved as su X the text has been establis	• • • • • • • • • • • • • • • • • • • •	Authority as it appears in Box No. IV. The applicant					
		al search report, submit comments to this Authority.					
6. With regard to the drawings,							
a. the figure of the drawings to be p	ublished with the abstract is Figure No.	1					
X as suggested by t							
	s Authority, because the applicant failed						
	s Authority, because this figure better of	naracterizes the invention.					
b none of the figures is to be	e published with the abstract.						

International application No.

INTERNATIONAL SEARCH REPORT

PCT/GB2005/000399

Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/000399

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B05B11/00

According to International Patent Classitication (IPC) or to both national classitication and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system tollowed by classification symbols) IPC $7 \ B05B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Ρ,Χ	WO 2004/026489 A (PHARMACIA AB) 1 April 2004 (2004-04-01)	1-3,12, 16-21, 33-35
	page 8, line 4 - page 11, line 8; figures 10-18	
X	US 4 623 337 A (MAURICE, DAVID M.) 18 November 1986 (1986-11-18)	1-3,12, 16-21, 29,33-35
	column 4, line 63 - column 5, line 34; figure 9	
4	DE 100 17 438 A1 (KATZ, OTTO) 11 October 2001 (2001-10-11) paragraph '0031!; figure 1	1,19

χ Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance E" earlier document but published on or after the international filing date L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O" document referring to an oral disclosure, use, exhibition or other means P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 6 May 2005	Date of mailing of the international search report $17/05/2005$
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Authorized officer Innecken, A

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2005/000399

`n+~~~~	Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT egopy © Citation of document, with indication, where appropriate, of the relevant passages. Relevant to claim No.				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
4	WO 02/068317 A (COHEN, BEN Z.; KELLY, NIGEL) 6 September 2002 (2002-09-06) page 3, line 16 - page 9, line 11; figures 2-4	1,19			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2005/000399

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 2004026489	Α	01-04-2004	AU WO US	2003253555 A1 2004026489 A1 2005077315 A1	08-04-2004 01-04-2004 14-04-2005
US 4623337	Α	18-11-1986	NONE		
DE 10017438	A1	11-10-2001	NONE		
W0 02068317	Α	06-09-2002	EP WO	1385779 A1 02068317 A1	04-02-2004 06-09-2002

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:			PCT		
	see form PCT/ISA/220		INTERNATIO	TTEN OPINION OF THE ONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bis.</i> 1)	
			Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)	
' '	icant's or agent's file reference form PCT/ISA/220		FOR FURTHER See paragraph 2 be		
·	national application No. Γ/GB2005/000399	International filing date (c) 04.02.2005	lay/month/year)	Priority date (day/month/year) 06.02.2004	
	national Patent Classification (IPC) or B11/00	both national classification a	and IPC		
' '	AXO GROUP LIMITED	TTETTE And management			
1.	 □ Box No. IV Reasoned state applicability; complete applicability; complete applicability; complete application of the Internation of the Internation of the International Bureau under Rule will not be so considered. □ Box No. VII Certain defects and the Internation of the Internation of the Internation of the International Bureau under Rule will not be so considered. □ Box No. VII Certain defects and No. VIII Certain observed. 	ment of opinion with regard invention tement under Rule 43 bissitations and explanations tents cited in the international apportations on the internation of the inte	ard to novelty, invention (a) (i) with regard to supporting such station al application al application be the IPEA and the printer opinion of the printer, with amending the state, with amending the state of the	vill usually be considered to be a . However, this does not apply where le chosen IPEA has notifed the	
Nam	e and mailing address of the ISA:		Authorized Officer	ches Pelenta	



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Innecken, A

Telephone No. +49 89 2399-8911



WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/GB2005/000399

	Box No. I Basis of the opinion
۱.	With regard to the language, this opinion has been established on the basis of the international application in he language in which it was filed, unless otherwise indicated under this item.
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
	a. type of material:
	□ a sequence listing
	□ table(s) related to the sequence listing
	o. format of material:
	□ in written format
	□ in computer readable form
	c. time of filing/furnishing:
	☐ contained in the international application as filed.
	\square filed together with the international application in computer readable form.
	☐ furnished subsequently to this Authority for the purposes of search.
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating ther has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Y

Yes: Claims 4-11,13-15,22-32

No: Claims

1-3,12,16-21,33-35

Inventive step (IS)

Yes: Claims

4-11,13-15,22-32

No: Claims

Industrial applicability (IA)

Yes: Claims

1-35

No: Claims

2. Citations and explanations

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Novelty, inventive step, and industrial applicability (Item V)

Claim 1

- 1. From **US4623337 (D1)** (see column 4, line 63 to column 5, line 34 and figure 9) there is known a delivery device 140 for delivering a metered amount of substance on each actuation thereof, comprising: a delivery unit operable to deliver a metered amount of substance, the delivery unit including a piston member 160 which, in a reciprocating movement, primes, meters and delivers a metered amount of substance; and an actuation mechanism 164,168,172 actuatable by a user to operate the delivery unit, the actuation mechanism 164,168,172 comprising an actuator member 172 to which a user applies an actuation force in substantially a single direction, and being configured to effect the reciprocating movement of the piston member 160 on application of the actuation force.
- 2. Thus, it appears that the subject-matter of claim 1 is not new as required by Article 33(2) PCT.

Claims 2, 3, 12, 16 to 21, and 33 to 35

3. Document (D1) (loc. cit.) also discloses the features of claims 2, 3, 12, 16 to 21, and 33 to 35. Thus, it appears that the subject-matter of these claims is not new as required by Article 33(2) PCT.

Certain defects in the international application (Item VII)

- 4. Independent claims 1 and 19 are not drafted in the two part form specified in Rule 6.3b) of the PCT.
- 5. The description does not cite a document reflecting the closest background art (see Rule 5.1a) ii) PCT).

Certain observations on the international application (Item VIII)

- 6. Although claims 1 and 19 have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought. The aforementioned claims therefore lack conciseness. Hence, claims 1 and 19 do not comply with the requirements of Article 6 PCT.
- 7. Independent claim 36 does not meet the requirements of Article 6 PCT as it relies on a reference to the description and drawings (see PCT Preliminary Examination Guidelines, part II, 5.10).